Lombardi
COMPREHENSIVE
CANCER CENTER at GEORGETOWN UNIVERSITY

NATIONAL CANCER INSTITUTE   caBIG   cancer Biomedical Informatics Grid   forth

Architecture

Challenges

- **Data Distributed among disparate locations**
  - Storage issues
  - Data Mining issues
  - Control issues

- **Authentication Rules and Procedures**
  - Even if data is made visible to users, how is access controlled?
  - Some data should be shared globally, now or in the future; other data must be controlled to smaller populations.
  - Who controls changes to access lists for databases
  - Owners of data need to maintain control and ownership while still sharing with communities.
  - How can we establish a single sign-in?
  - How can we establish a single portal?

- **Tools are widely distributed.**
  - Local Cancer Centers create new tools, yet there is no central repository for these tools.
  - Since there is no current method for sharing data, tools

are frequently written for local use. New data distribution methods will enable tools to become more widely shared.
- How can we establish a single sign-in for tool access?
- How can we establish a single portal for tool access?

- **Computation resources are widely and unevenly distributed.**
  - Resources are constrained for high performance computing among all centers.
  - Existing computational resources are not performing at 100% capacity.
  - At any point there are centers who need computational power and other centers who have power available.

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